OIPE JC66
FEB 19 20
PATENT & TRADEMARK OFFICE

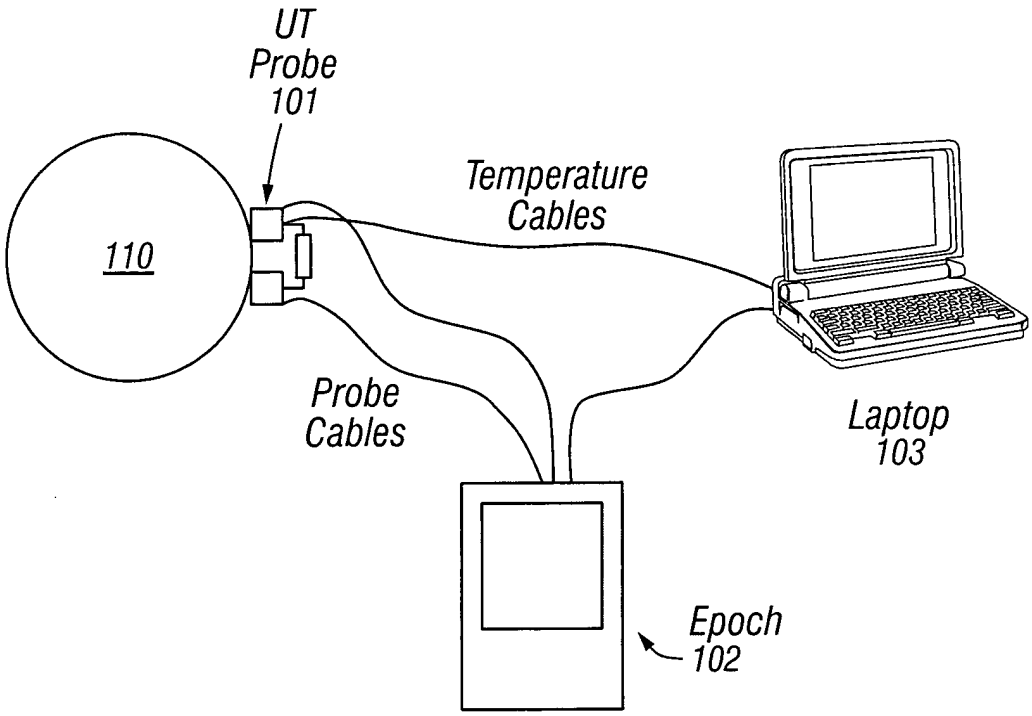
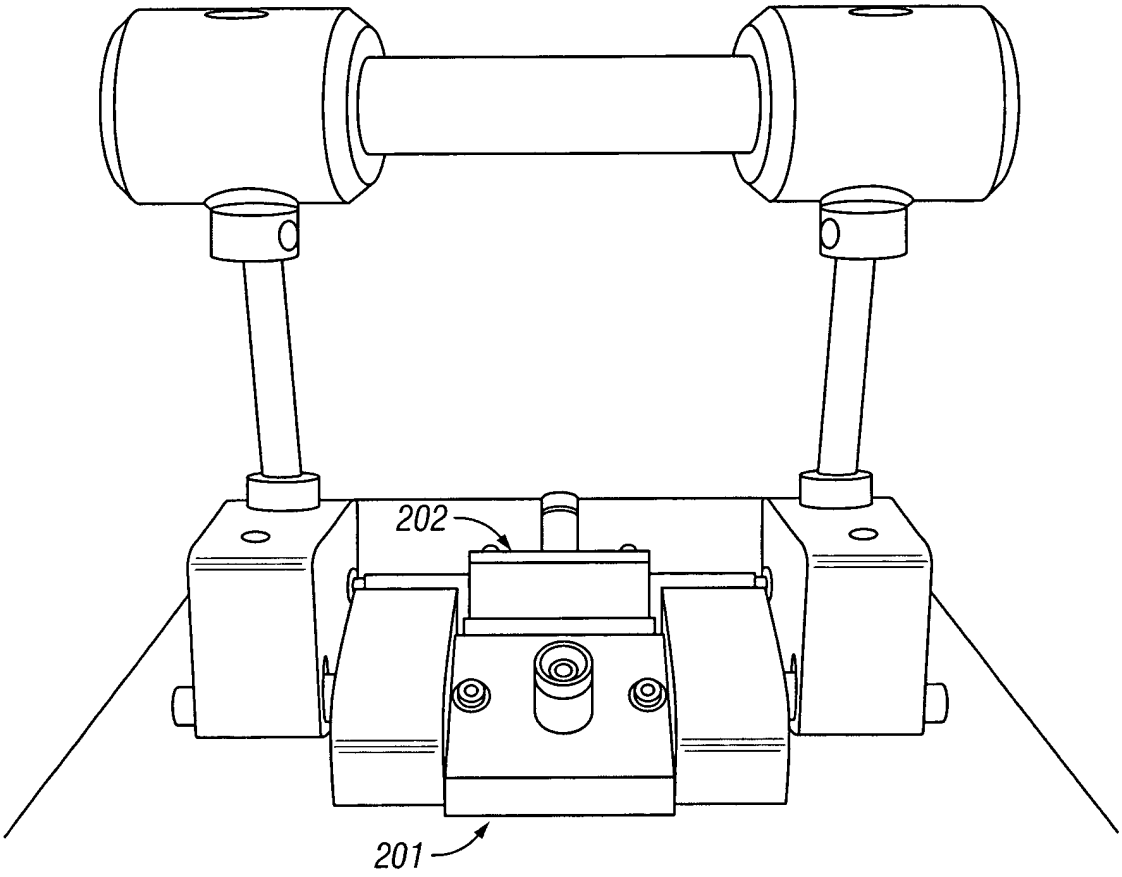
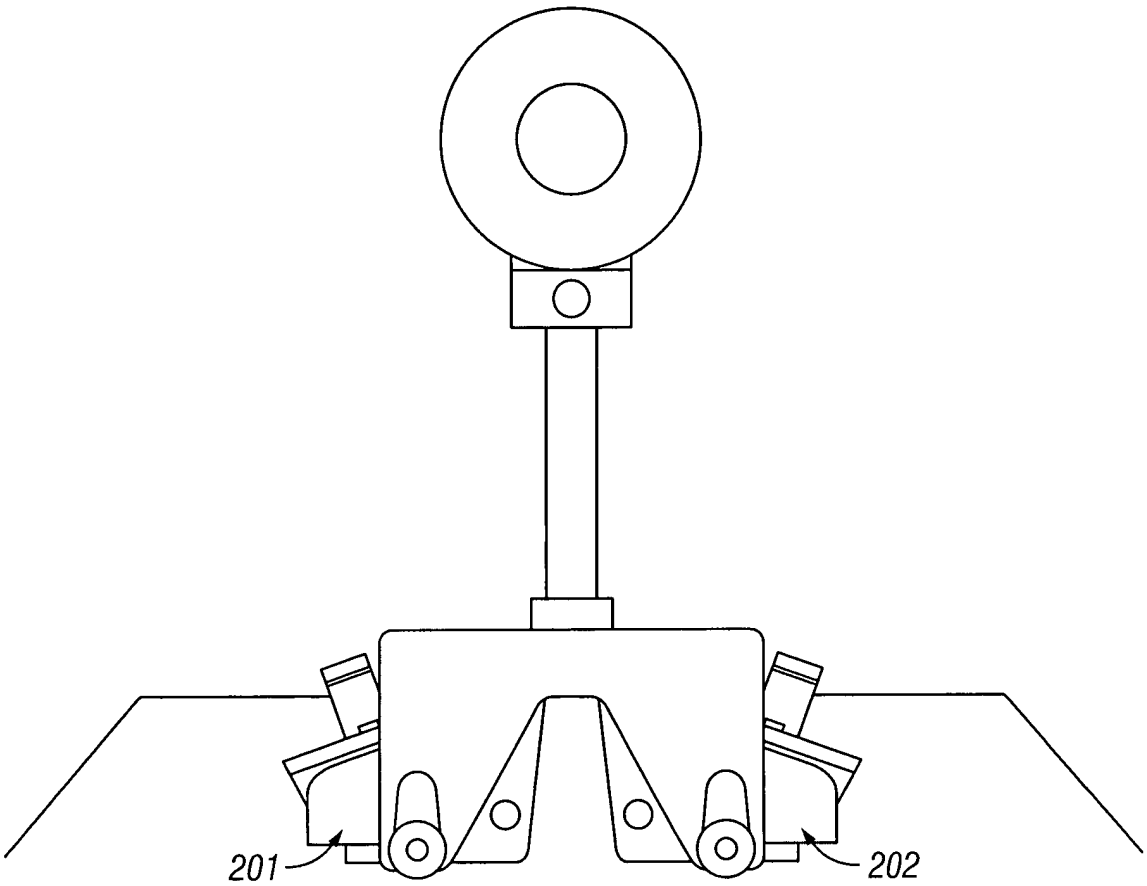


FIG. 1



200

FIG. 2A



200

FIG. 2B

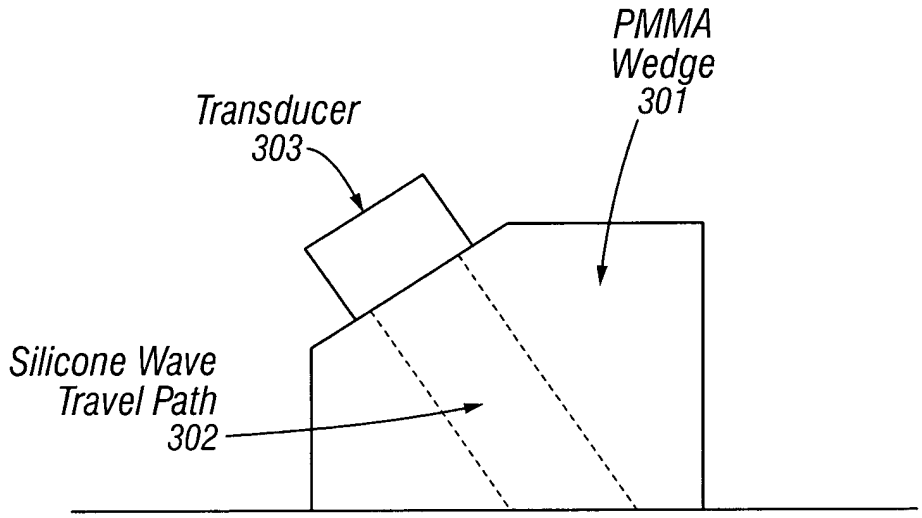

PMMA
Wedge
301
Transducer
303
Silicone Wave
Travel Path
302

FIG. 3

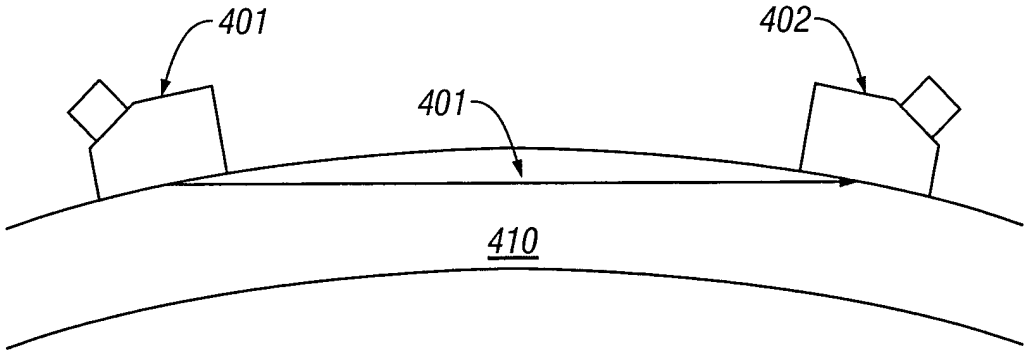
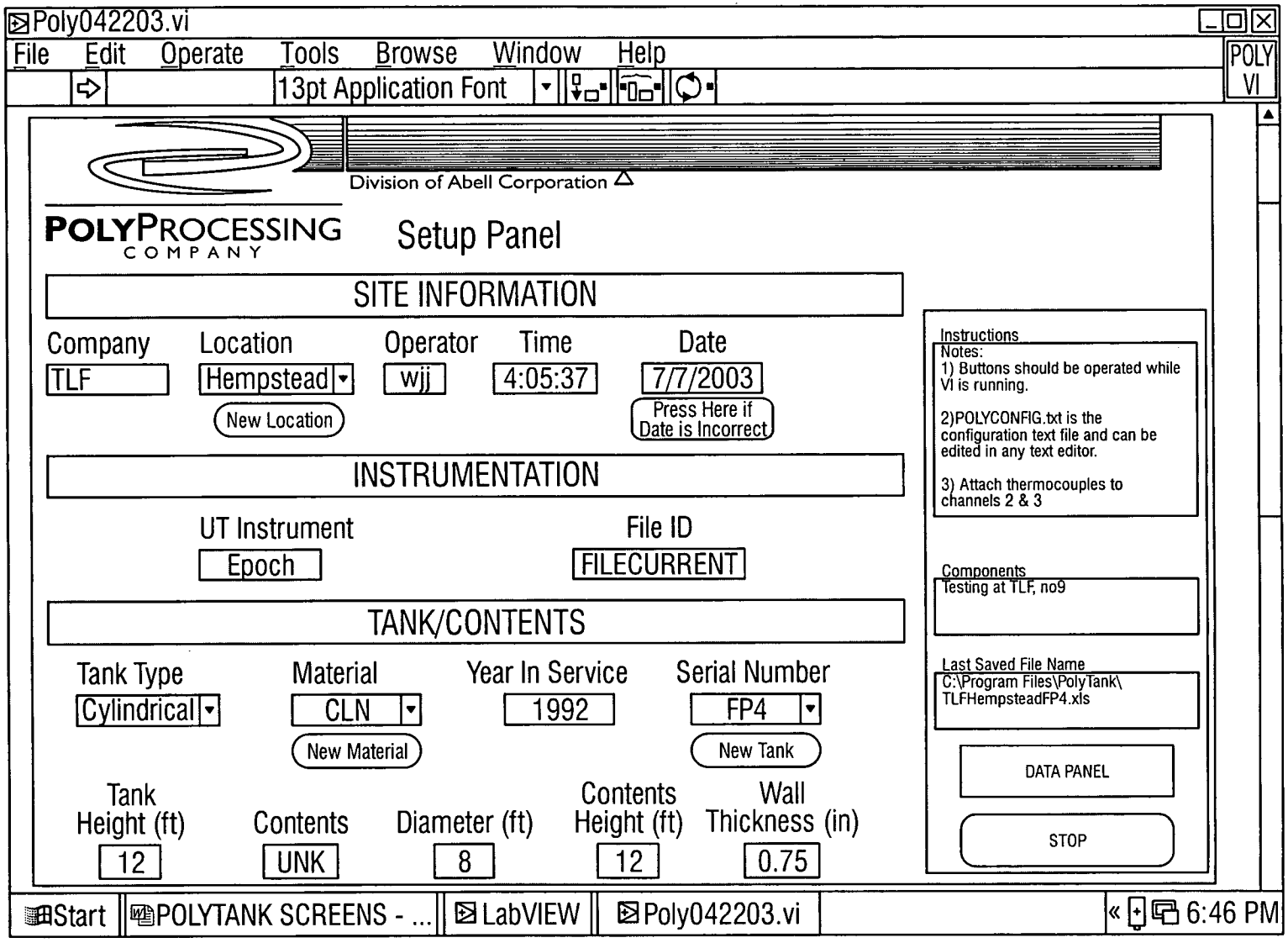
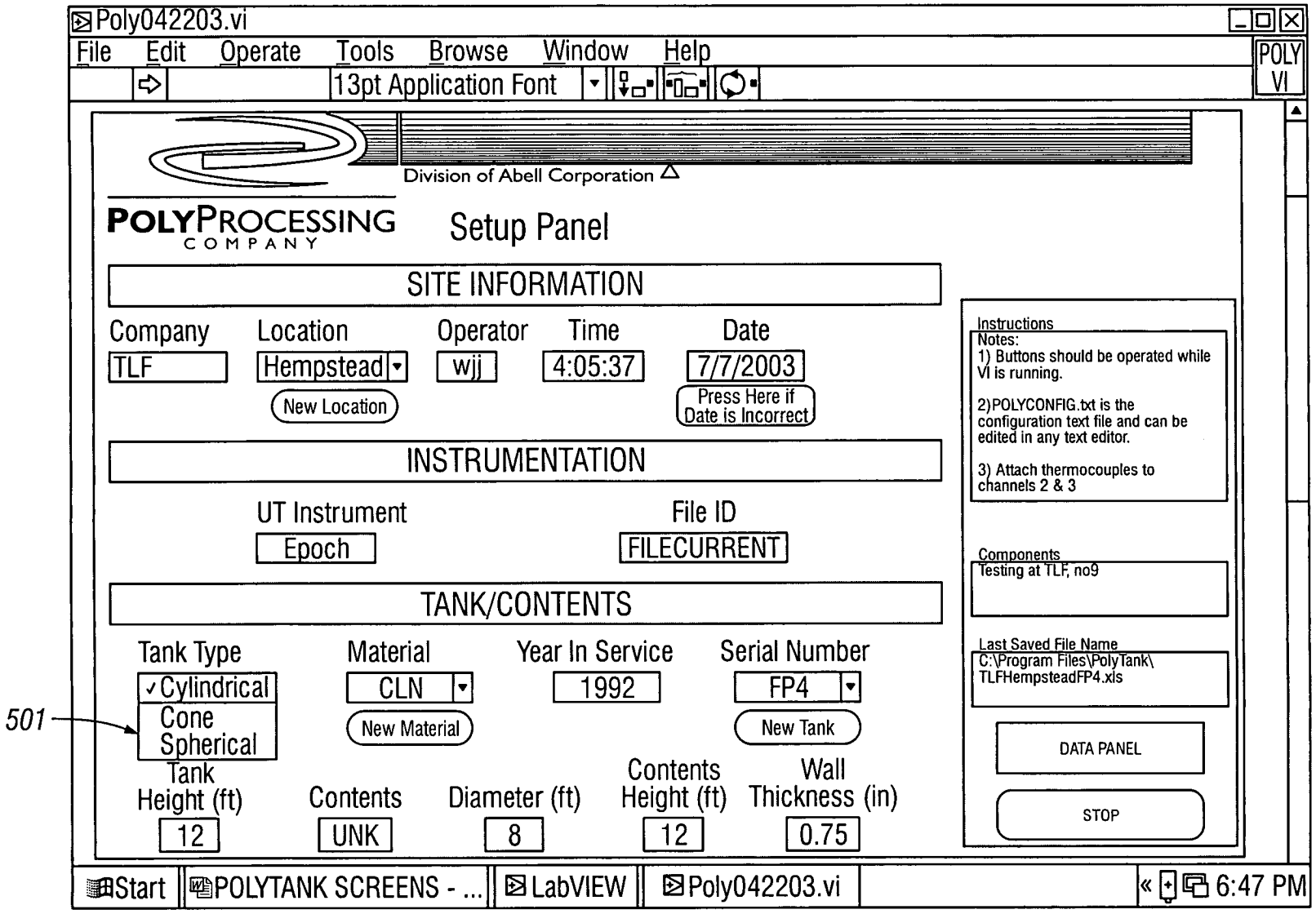

401
402
401
410

FIG. 4


Poly042203.vi
File Edit Operate Tools Browse Window Help
13pt Application Font
POLY VI
Division of Abell Corporation
POLYPROCESSING COMPANY
Setup Panel
SITE INFORMATION
Company
TLF
Location
Hempstead
New Location
Operator
wjj
Time
4:05:37
Date
7/7/2003
Press Here if Date is Incorrect
INSTRUMENTATION
UT Instrument
Epoch
File ID
FILECURRENT
TANK/CONTENTS
Tank Type
Cylindrical
Material
CLN
New Material
Year In Service
1992
Serial Number
FP4
New Tank
Tank Height (ft)
12
Contents
UNK
Diameter (ft)
8
Contents Height (ft)
12
Wall Thickness (in)
0.75
Instructions
Notes:
1) Buttons should be operated while VI is running.
2)POLYCONFIG.txt is the configuration text file and can be edited in any text editor.
3) Attach thermocouples to channels 2 & 3
Components
Testing at TLF, no9
Last Saved File Name
C:\Program Files\PolyTank\TLFHempsteadFP4.xls
DATA PANEL
STOP
Start
POLYTANK SCREENS - ...
LabVIEW
Poly042203.vi
6:46 PM

500

FIG. 5A



500

FIG. 5B

6/10

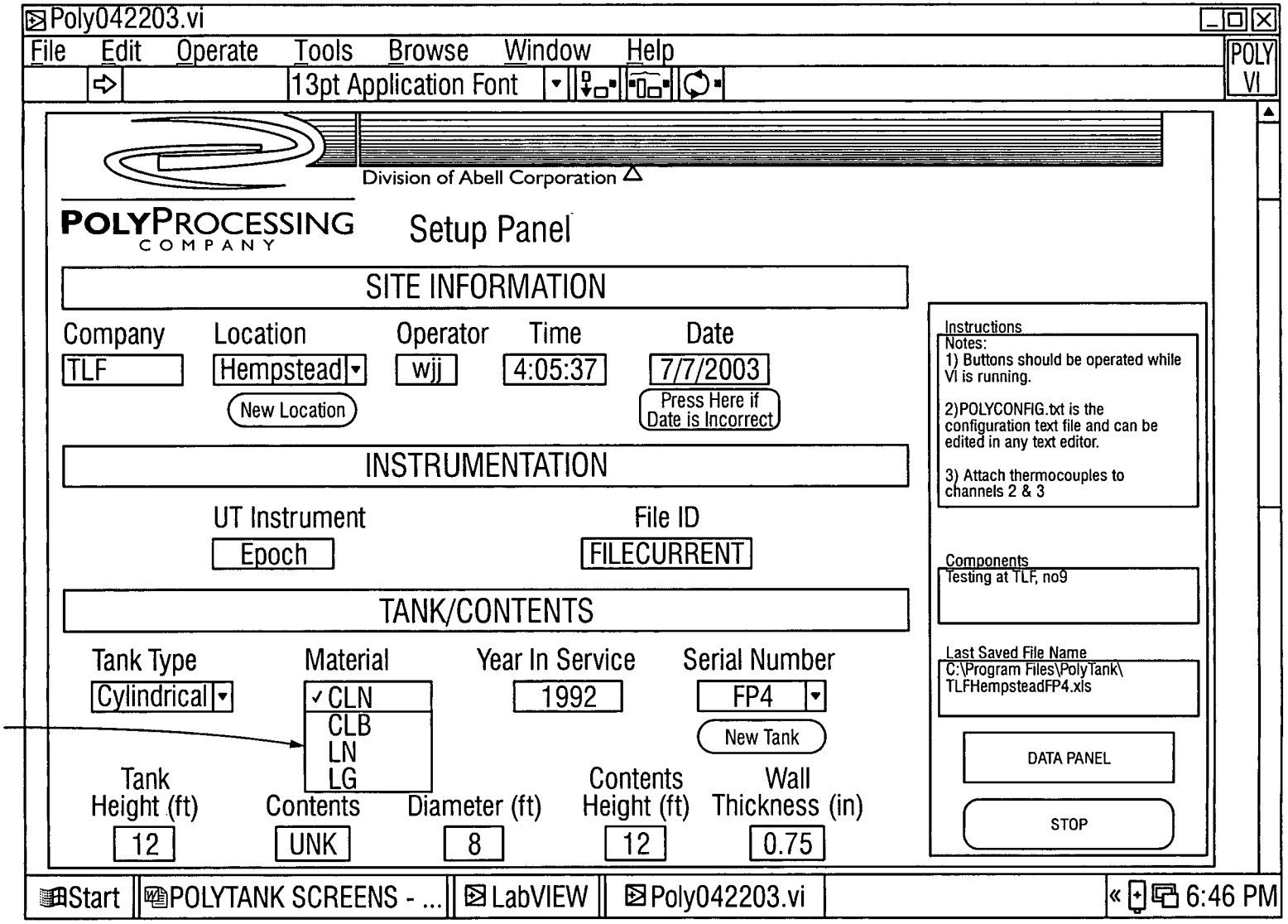
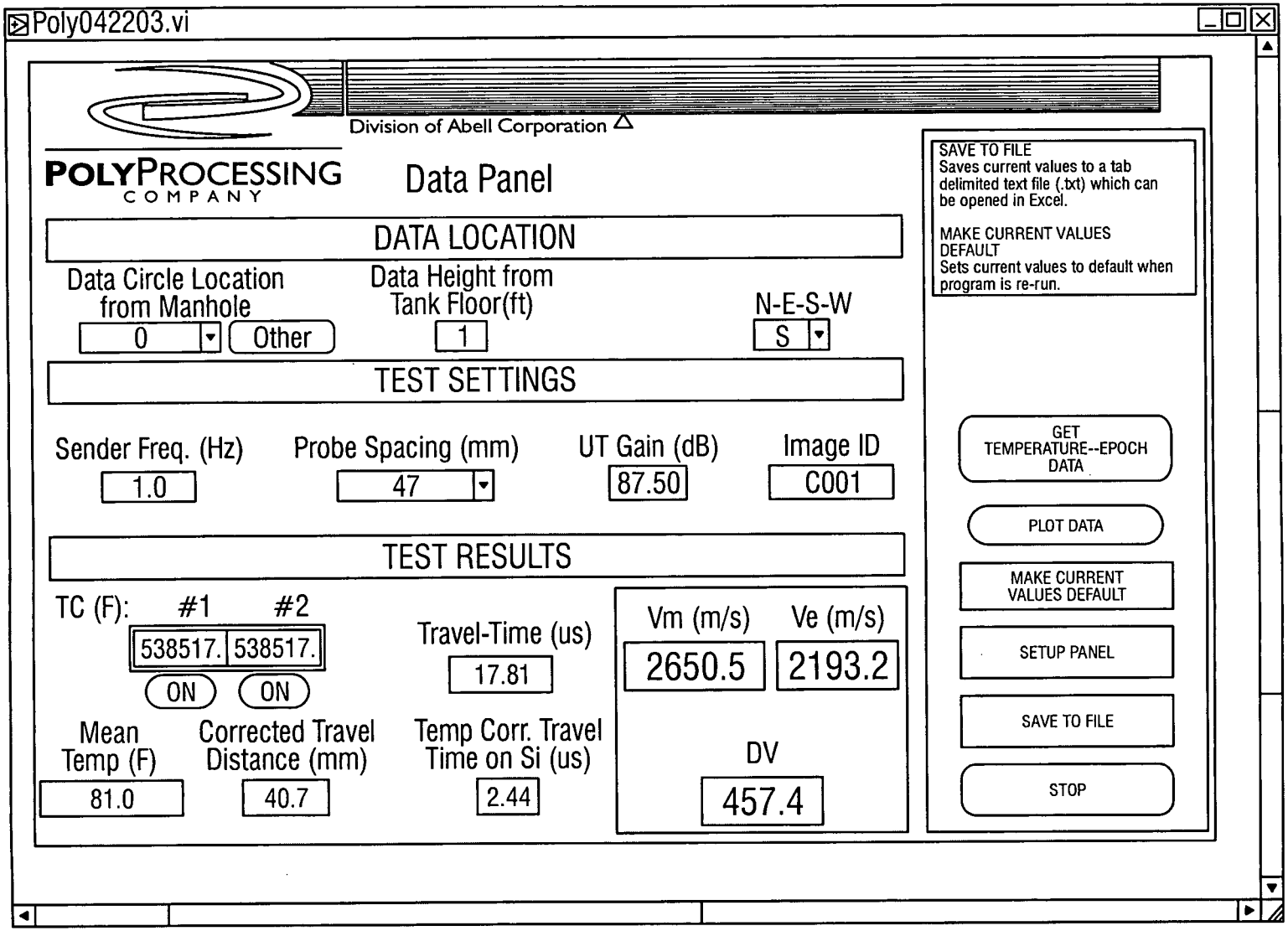

Poly042203.vi
File Edit Operate Tools Browse Window Help
13pt Application Font
POLY VI
Division of Abell Corporation
POLYPROCESSING COMPANY
Setup Panel
SITE INFORMATION
Company
TLF
Location
Hempstead
New Location
Operator
wjj
Time
4:05:37
Date
7/7/2003
Press Here if Date is Incorrect
INSTRUMENTATION
UT Instrument
Epoch
File ID
FILECURRENT
TANK/CONTENTS
Tank Type
Cylindrical
Material
CLN
CLB
LN
LG
Year In Service
1992
Serial Number
FP4
New Tank
Tank Height (ft)
12
Contents
UNK
Diameter (ft)
8
Contents Height (ft)
12
Wall Thickness (in)
0.75
Instructions
Notes:
1) Buttons should be operated while VI is running.
2)POLYCONFIG.txt is the configuration text file and can be edited in any text editor.
3) Attach thermocouples to channels 2 & 3
Components
Testing at TLF, no9
Last Saved File Name
C:\Program Files\PolyTank\TLFHempsteadFP4.xls
DATA PANEL
STOP
Start
POLYTANK SCREENS - ...
LabVIEW
Poly042203.vi
6:46 PM
502
500

FIG. 5C

7/10


Poly042203.vi
Division of Abell Corporation
POLYPROCESSING COMPANY
Data Panel
SAVE TO FILE
Saves current values to a tab delimited text file (.txt) which can be opened in Excel.
MAKE CURRENT VALUES DEFAULT
Sets current values to default when program is re-run.
DATA LOCATION
Data Circle Location from Manhole
0
Other
Data Height from Tank Floor(ft)
1
N-E-S-W
S
TEST SETTINGS
Sender Freq. (Hz)
1.0
Probe Spacing (mm)
47
UT Gain (dB)
87.50
Image ID
C001
GET TEMPERATURE--EPOCH DATA
PLOT DATA
MAKE CURRENT VALUES DEFAULT
SETUP PANEL
SAVE TO FILE
STOP
TEST RESULTS
TC (F): #1 #2
538517.
538517.
ON
ON
Travel-Time (us)
17.81
Vm (m/s)
2650.5
Ve (m/s)
2193.2
Mean Temp (F)
81.0
Corrected Travel Distance (mm)
40.7
Temp Corr. Travel Time on Si (us)
2.44
DV
457.4

600

FIG. 6A

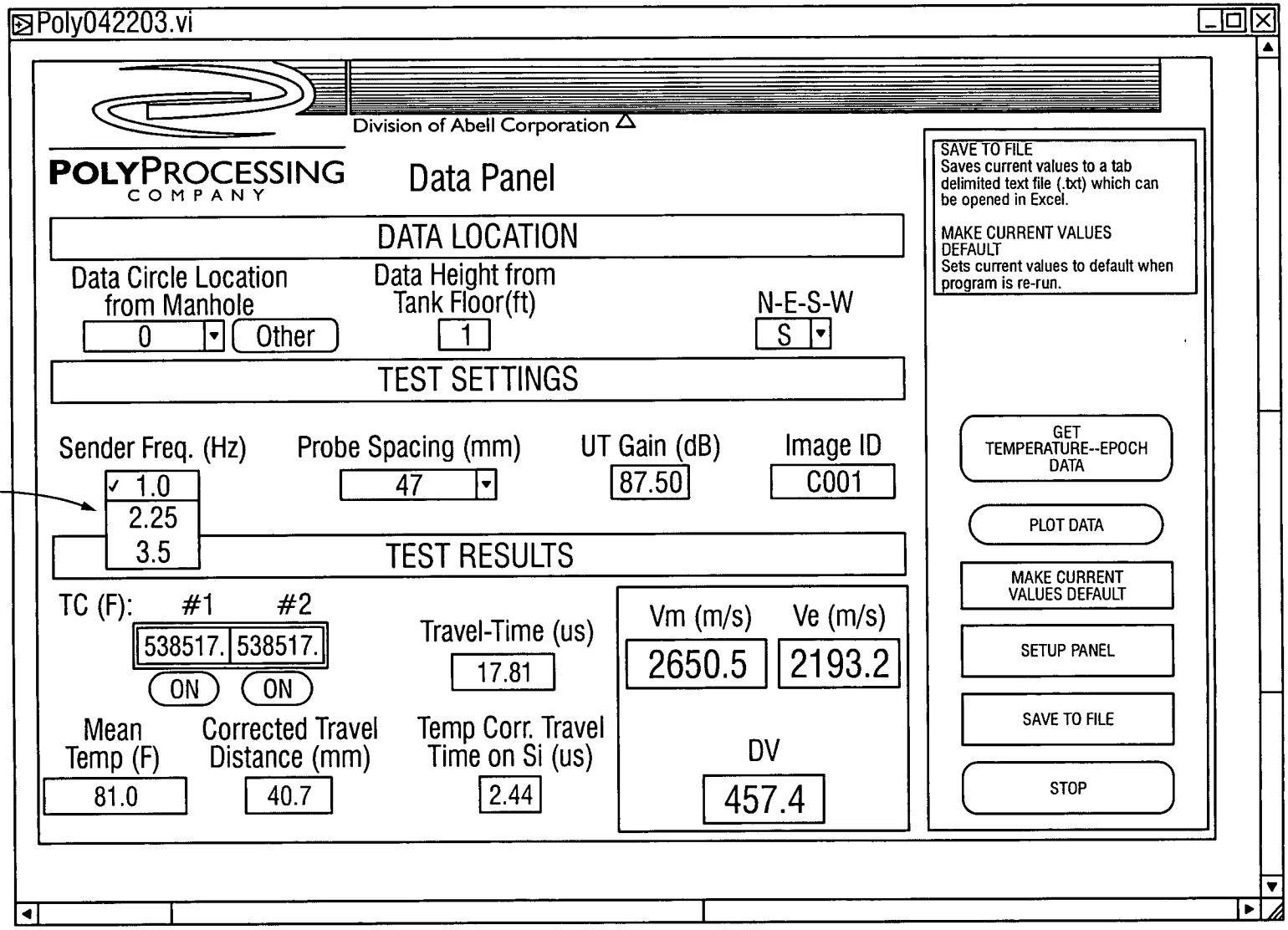

Poly042203.vi
Division of Abell Corporation
POLYPROCESSING COMPANY
Data Panel
SAVE TO FILE
Saves current values to a tab delimited text file (.txt) which can be opened in Excel.
MAKE CURRENT VALUES DEFAULT
Sets current values to default when program is re-run.
DATA LOCATION
Data Circle Location from Manhole
0
Other
Data Height from Tank Floor(ft)
1
N-E-S-W
S
TEST SETTINGS
Sender Freq. (Hz)
1.0
2.25
3.5
Probe Spacing (mm)
47
UT Gain (dB)
87.50
Image ID
C001
GET TEMPERATURE--EPOCH DATA
PLOT DATA
MAKE CURRENT VALUES DEFAULT
SETUP PANEL
SAVE TO FILE
STOP
TEST RESULTS
TC (F): #1 #2
538517.
538517.
ON
ON
Travel-Time (us)
17.81
Vm (m/s)
2650.5
Ve (m/s)
2193.2
DV
457.4
Mean Temp (F)
81.0
Corrected Travel Distance (mm)
40.7
Temp Corr. Travel Time on Si (us)
2.44
601
600

FIG. 6B

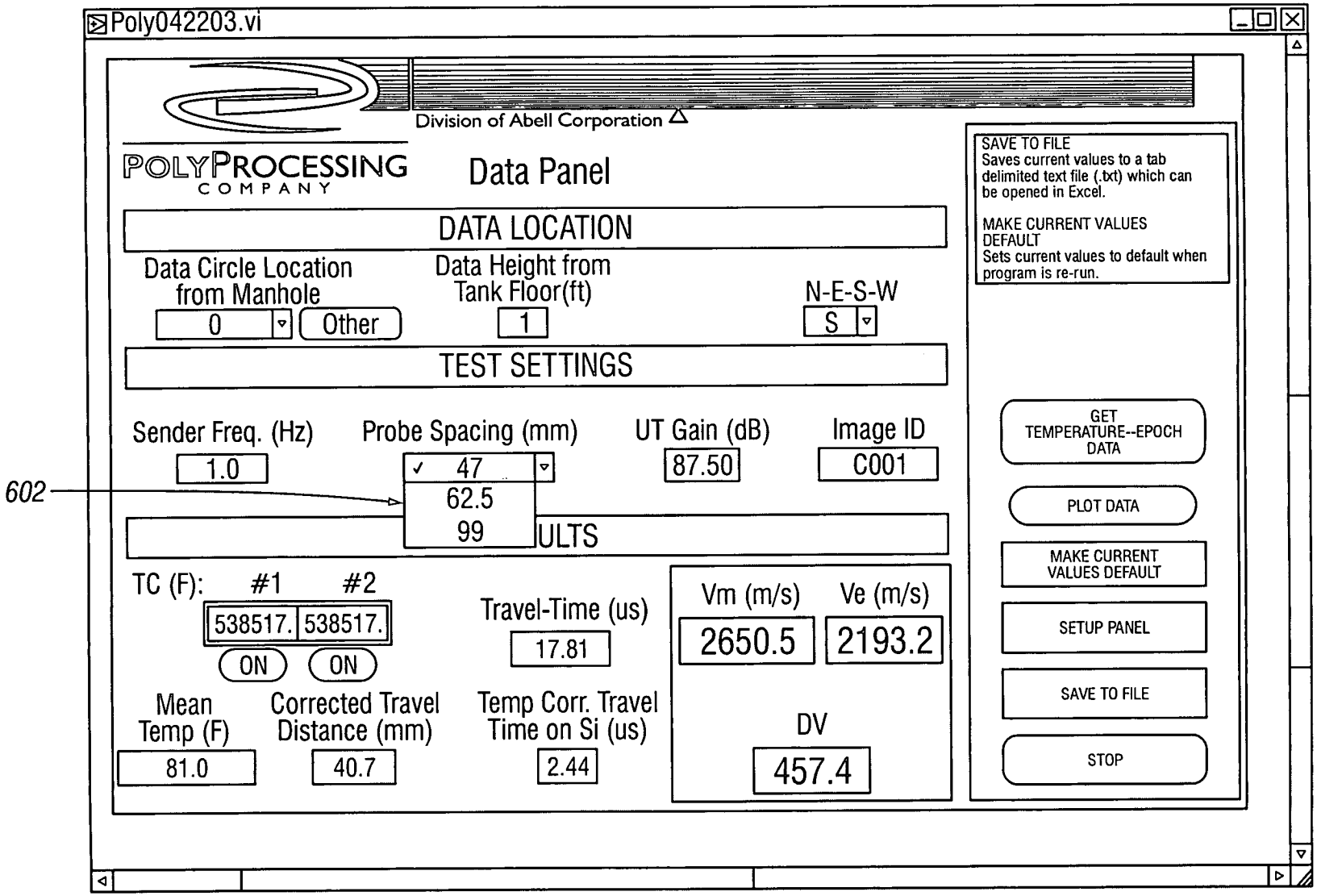

Poly042203.vi
Division of Abell Corporation
POLYPROCESSING COMPANY
Data Panel
DATA LOCATION
Data Circle Location from Manhole
0
Other
Data Height from Tank Floor(ft)
1
N-E-S-W
S
TEST SETTINGS
Sender Freq. (Hz)
1.0
Probe Spacing (mm)
47
62.5
99
UT Gain (dB)
87.50
Image ID
C001
ULTS
TC (F): #1 #2
538517.
538517.
ON
ON
Travel-Time (us)
17.81
Vm (m/s)
2650.5
Ve (m/s)
2193.2
DV
457.4
Mean Temp (F)
81.0
Corrected Travel Distance (mm)
40.7
Temp Corr. Travel Time on Si (us)
2.44
SAVE TO FILE
Saves current values to a tab delimited text file (.txt) which can be opened in Excel.
MAKE CURRENT VALUES DEFAULT
Sets current values to default when program is re-run.
GET TEMPERATURE--EPOCH DATA
PLOT DATA
MAKE CURRENT VALUES DEFAULT
SETUP PANEL
SAVE TO FILE
STOP
602
600

FIG. 6C